

## BLADE FOR COMPRESSOR AND MANUFACTURE THEREOF

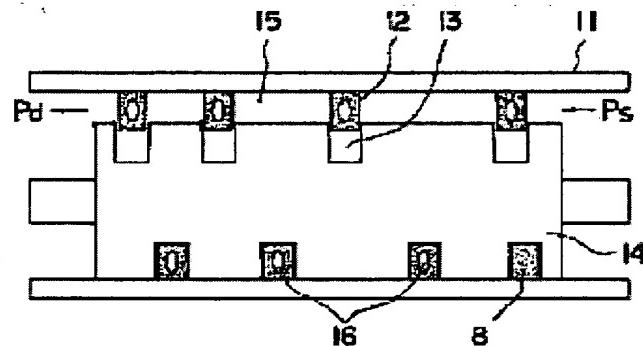
**Patent number:** JP10061575  
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**Applicant:** TOSHIBA CORP  
**Classification:**  
 - international: F04C18/344; F04C18/344  
 - european:  
**Application number:** JP19960220157 19960821  
**Priority number(s):**

**Also published as:**  
 JP10061575 (A)

### Abstract of JP10061575

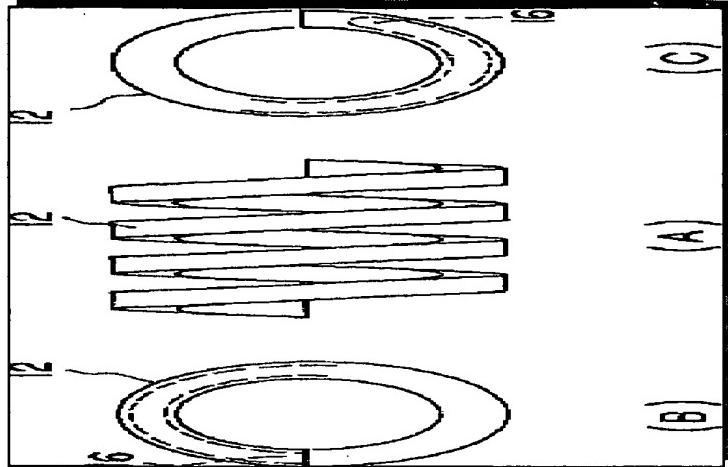
**PROBLEM TO BE SOLVED:** To easily get a blade in/from a spiral groove, and to improve the sliding characteristic, abrasion resistance and sealing property by forming a space inside of a spiral blade made of fluororesin, which forms a compressing element of a compressor, along the spiral direction thereof, and communicating a part of this space with a compression chamber.

**SOLUTION:** A compressing element of a helical blade compressor is formed of a spiral blade 12, which is made of PTFE resin and which is arranged along the inner peripheral surface of a cylindrical cylinder 11, and a piston 14 having a spiral groove 13, in which the blade is to be fitted, and the pitch of the spiral groove 13 is formed so as to be gradually reduced from a coolant inlet side toward the coolant outlet side. In this case, the blade 12 is formed into the hollow structure having a square cross section having a space 16 inside thereof, and a part of the space 16 is opened to a high-pressure Pd side, and while formed into the closed-shape at a low-pressure Ps side. Flexibility is thereby increased by providing the space 16 in the blade 12, and the blade can be easily get in/from the spiral groove 13.

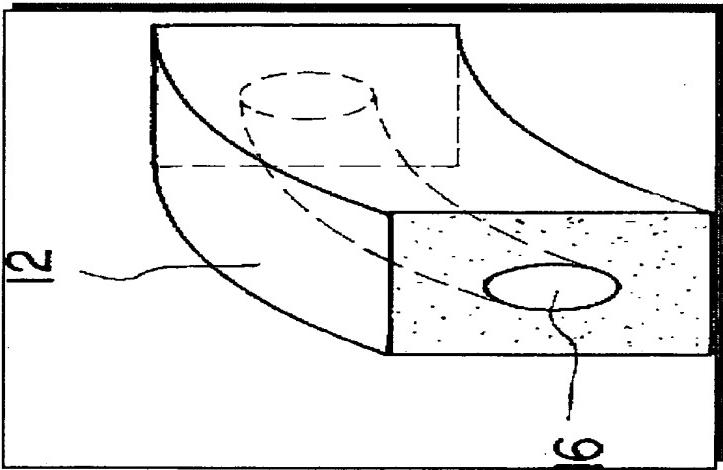
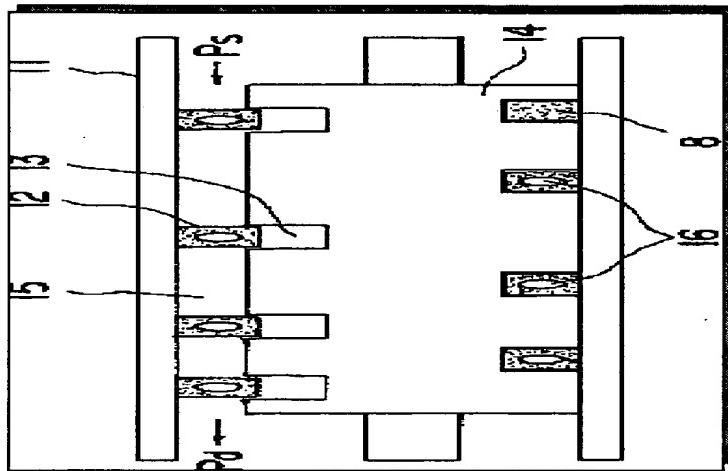


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項目	アーチード	コノナガ
実験例	アーチード	コノナガ
アーチード	アーチード	アーチード
アーチード	アーチード	アーチード
アーチード	アーチード	アーチード



アーチード	中空断面積率 (%)	コントラクション数
アーチード	0	100
アーチード	10	104
アーチード	20	109
アーチード	30	110
アーチード	40	105
アーチード	50	35



試験番号	結果
0	13
5	10
10	8

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